

# THE DOCTOR

- ated and purified polynucleotide  
 tide comprises the nucleotide

10. The opioid receptor polypeptide of Claim 9, wherein the polypeptide is a recombinant polypeptide.
11. The opioid receptor polypeptide of Claim 9 that comprises the amino acid residue sequence of SEQ ID NO:2.
12. An isolated and purified gene transcription regulatory polypeptide that comprises the amino acid residue sequence of SEQ ID NO:4.
13. An expression vector comprising a polynucleotide that encodes a mu opioid receptor polypeptide.
14. A recombinant host cell transfected with a polynucleotide that encodes a mu opioid receptor polypeptide.
15. A process of preparing a mu opioid receptor polypeptide comprising:
  - (a) transfecting a cell with a polynucleotide that encodes said polypeptide to produce a transformed host cell; and
  - (b) maintaining the transformed host cell under biological conditions sufficient for expression of the polypeptide.
16. An antibody immunoreactive with a mu opioid receptor polypeptide.
17. A process of detecting a mu opioid receptor polypeptide, wherein the process comprises:
  - (a) immunoreacting said polypeptide with the antibody of Claim 16 to form an antibody-polypeptide conjugate; and
  - (b) detecting the conjugate.

18. A process of screening a substance for its ability to interact with a mu opioid receptor, said process comprising the steps of:

- a) providing a mu opioid receptor polypeptide;
- b) testing the ability of said substance to interact with said opioid receptor.

*Add aa'*

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